Application No.: 10/019,332 Docket No.: SONYAK 3.3-160

IN THE CLAIMS

1. (Original) An optical communication apparatus in which light for transmission and light for receipt are propagated simultaneously over a sole cable to effect bidirectional communication, comprising:

light emitting means for emitting said light for transmission;

light receipt means for receiving said light for receipt; and

light guide means for guiding said light for transmission over said cable and for guiding said light for receipt to said light receipt means, wherein

a value of a light volume M of stray light generated with respect to said light receipt means satisfies the following relationship:

$$S - 2QN \ge M > S/2Q - N$$

where Q is the value of a Q-value representing communication quality as required, S is light volume of a received signal from a communication partner and N is a sum total of a Gaussian noise.

- 2. (Original) The optical communication apparatus according to claim 1 wherein a ratio S/M, where S is the light volume of the received signal and M is the light volume of the stray light is 7% to 30%.
- 3. (Original) The optical communication apparatus according to claim 1 wherein a transmission speed in said optical communication is not lower than 100 Mbps.
- 4. (Original) The optical communication apparatus according to claim 1 wherein said cable is a plastic optical fiber.
- 5. (Original) The optical communication apparatus according to claim 1 wherein the sum of light volumes of the reflected light from the communication partner is 0.7% to 3.0%

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of the volume of the received light in said communication partner.

6. (Original) An optical communication method by an optical communication apparatus comprising light emitting means for emitting light for transmission, light receipt means for receiving light for receipt and light guide means for guiding light for transmission over said cable and for guiding said light for receipt to said light receipt means, said light for transmission and said light for receipt of substantially the same wavelength being propagated substantially simultaneously by a sole cable to effect bidirectional communication; wherein

value of a light volume M of stray light generated with respect to said light receipt means satisfies the following relationship:

$$S - 2QN \ge M > S/2Q - N$$

where Q is the value of a Q-value representing communication quality as required, S is the light volume of a received signal from a communication partner and N is a sum total of a Gaussian noise.

- 7. (Canceled)
- 8. (Canceled)